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DIN-Rail Logger(WiFi)

Product Model:

LDW-1



Introduction

By collecting operating data and power generation of inverter, DIN-Rail Logger(WiFi/ETH) can run a long-term and efficient monitoring of PV system.

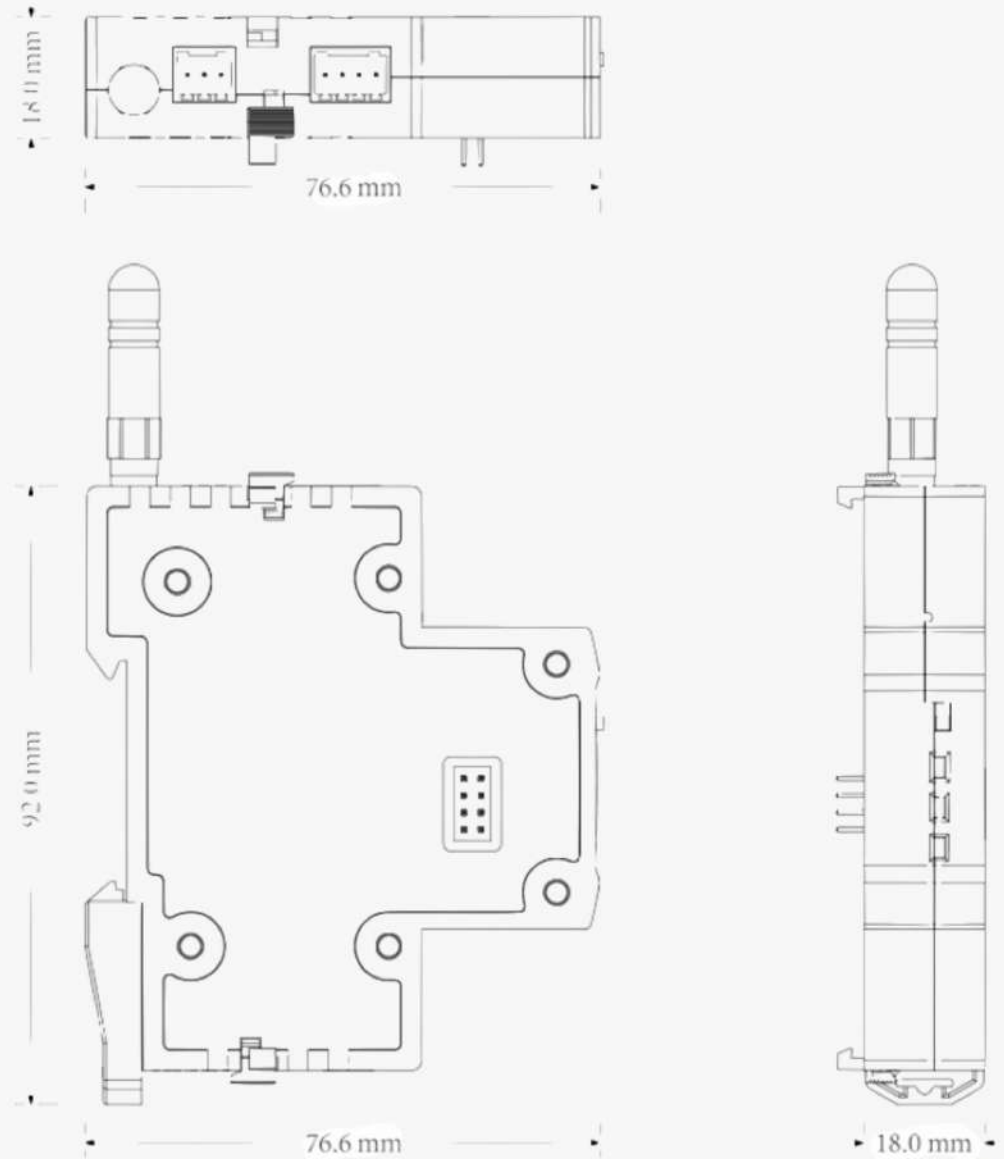
The logger can connect to multiple inverters, which enables to collect all the data of PV system from the inverter. Meanwhile, remote monitoring cloud platform (SOLARMAN Portal) provides powerful data support for the logger. Logger sends the data to the monitoring platform via WiFi or Ethernet. The real-time status and historical data can be displayed with graphs, enabling intuitive and clear understanding of PV system. Furthermore, customized alerts can notify users of any malfunction or defect immediately via SMS and E-mail, which realizes the management of PV system at anytime and anywhere, also simplifies the maintenance significantly.

Parameters

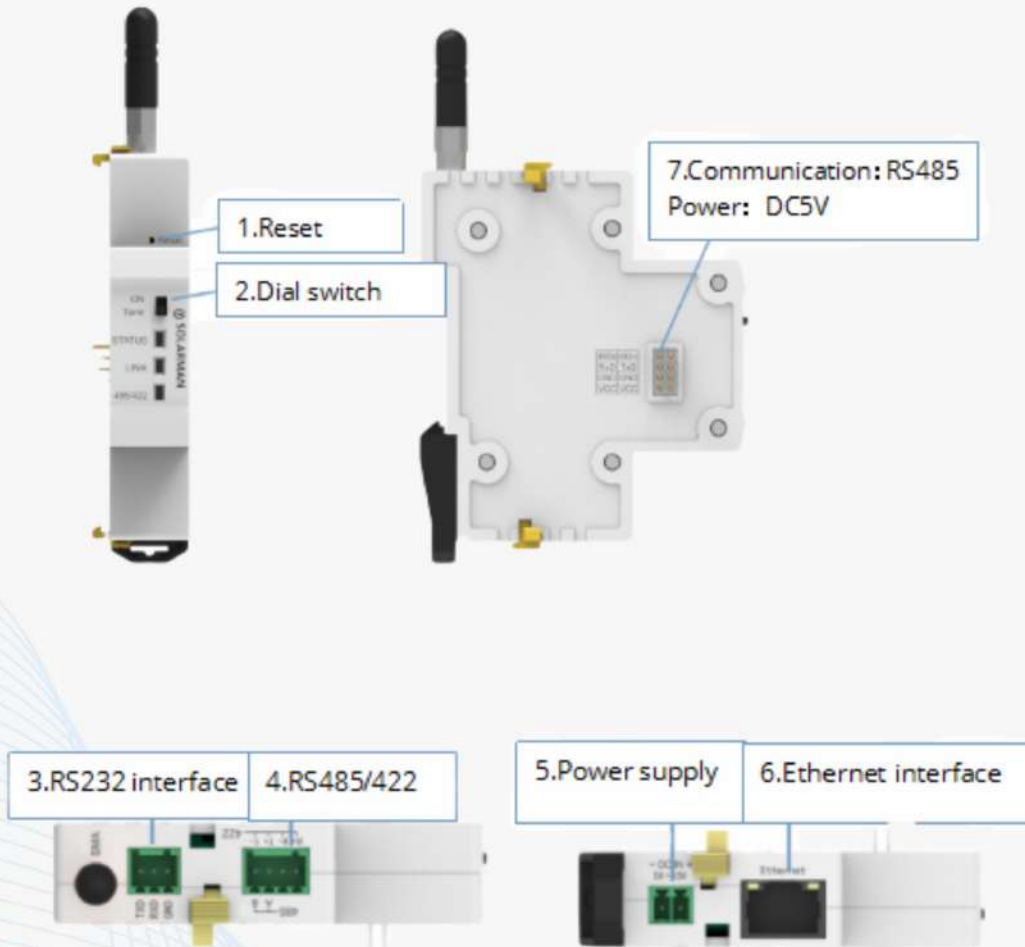
Parameter	
No.of inverters	1
Inverter communication interface	RS485 /RS422/RS232
Remote communication interface	WiFi/Ethernet
Serial communication rate	Default: 9600bps (1200 ~ 115200 bps Configurable)
Wireless standard	802.11 b/g/n
Wireless working frequency	2.412GHz ~ 2.484GHz
Wireless transmit power	802.11b: +20dBm(MAX)
	802.11g: +18dBm(MAX)
	802.11n: +15dBm(MAX)
Data collection interval	Default: 5 min / 1-15min optional
Parameter setting	Serial AT Instruction
Data access	(RS485 / RS422 /RS232) /Remote server
Indicator light	One connected to device
	One connected to server
	One shows device running status
Data storage	Default: 2M

Electrical parameter	
Working voltage	DC5V-12V(+/-5%) DC15V (Max.)
Working power	1.5W
Environment	
Working temperature	-30 ~ +70°C
Working humidity	Relative humidity: 10%-90%, no condensation
Storage temperature	-45°C~+90°C
Storage humidity	<40%
IP Grade	IP20
Installation	DIN-Rail

Product Size



Interface Identification



Region	Picture	Description	Network Name	Instruction
1		Press		Sending and Receiving Data
2		ON/OFF		ON: connected, otherwise disconnected. (Default: Term)
3		RS232 Sending Data	TXD	RS232 Sending Data
		RS232 Receiving Data	RXD	RS232 Receiving Data
		Ground	GND	Ground
4		RS485 B Sending and Receiving Data	485B-	485 Bus B
		RS485 A Sending and Receiving Data	485A+	485 Bus A
		RS422 R- Receiving Data	R-	422 Bus R-
		RS422 R+ Receiving Data	R+	422 Bus R+

5	PIN1		GND	GND	External power: GND
	PIN2		Power VCC	DC_VIN	External power: DC5V ~DC12V (At least 1.5W power supply/DC 15 at max.)
6	RJ-45		RS485 B Sending and Receiving Data	Ethernet	RJ45 Link
7	PIN1		RS485 B Sending and Receiving Data	485B-	485 Bus B
	PIN2		RS485 A Sending and Receiving Data	485A+	485 Bus A
	PIN3		NC	NC	NC
	PIN4		NC	NC	NC
	PIN5		GND	GND	External power: GND
	PIN7		Power VCC	DC_VIN	External power: DC5V ~DC12V (At least 1.5W power supply/DC 15 at max.)
	PIN8				External power: GND

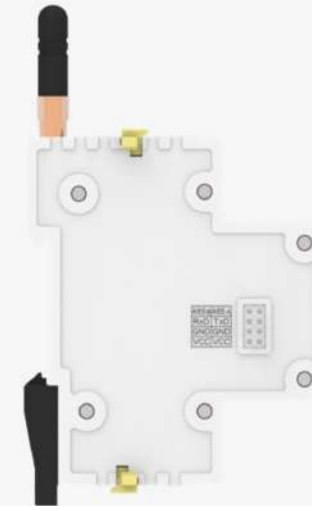
Product Picture



Front view



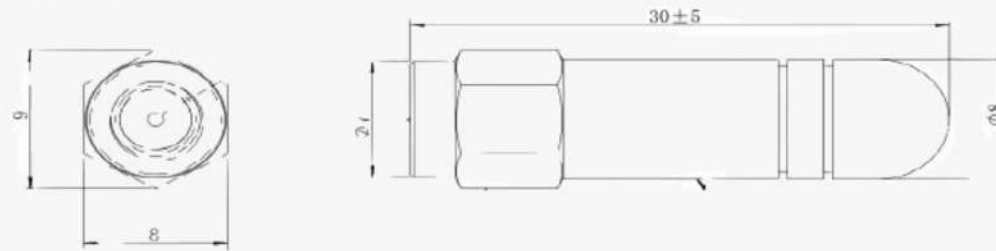
Right view



Left view

External Antenna

The applicable frequency range for external Antenna (SMA) is 2.412GHz~2.484GHz.



WiFi rubber case small antenna

External rubber case small antenna electrical performance index:

Classification	Performance Parameter
Frequency rang-MHz	2.412GHz ~ 2.484GHz
VSWR	≤1.5
Input Impedance-Ω	50Ω
Gain-dBi	1.5dBi
Working Temperature-°C	-40°C~+85°C
Antenna Color	Black
Input connector	SMA internal screw thread inner needle